

Claim 1. A construction module comprising, in combination:

a top panel having an outer surface, an inner surface, and top panel peripheral wall members defining a top cavity therebetween, said top panel having a first plurality of thin sheet laminate layers bonded together for forming said top panel peripheral wall members;

5 a bottom panel having an outer surface, an inner surface, and bottom panel peripheral wall members defining a bottom cavity therebetween, said bottom panel having a second plurality of thin sheet laminate layers bonded together for forming said bottom panel peripheral wall members;

10 an intermediate panel having an upper surface, a lower surface, and intermediate panel peripheral wall members, and said intermediate panel having a third plurality of thin sheet laminate layers bonded together for forming said intermediate panel peripheral wall members, and said intermediate panel having a decorative layer on said upper surface thereof in regions aligned with said cavity in said top panel and a decorative layer on said lower surface thereof in regions aligned with said cavity in said bottom panel, and said inner surface of said top panel  
15 bonded to said upper surface of said intermediate panel and said inner surface of said bottom panel bonded to said lower surface of said intermediate panel.

Claim 2. The arrangement defined in Claim 1 wherein:

20 said top panel peripheral wall members are substantially aligned with said bottom panel peripheral wall members.

Claim 3. The arrangement defined in Claim 2 wherein:

said peripheral wall members of said intermediate panel are substantially aligned with said top panel peripheral walls and said bottom panel peripheral walls.

5 Claim 4. A construction module comprising, in combination:

a top panel having an outer surface, an inner surface, and top panel peripheral wall members defining a top cavity therebetween, said top panel having a first plurality of thin sheet laminate layers bonded together for forming said top panel peripheral wall members;

10 a bottom panel having an outer surface, an inner surface, and bottom panel peripheral wall members defining a bottom cavity therebetween, said bottom panel having a second plurality of thin sheet laminate layers bonded together for forming said bottom panel peripheral wall members;

15 an intermediate panel having an upper surface, a lower surface, and intermediate panel peripheral wall members defining an intermediate cavity therebetween, and said intermediate panel having a third plurality of thin sheet laminate layers bonded together for forming said intermediate panel peripheral wall members;

said top cavity, said bottom cavity and said intermediate cavity in an aligned relationship;

a transparent member mounted in at least one of said top cavity, said bottom cavity and said intermediate cavity.

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Claim 5. An improved construction module comprising, in combination:

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a top panel having an outer surface, an inner surface, said top panel having a first plurality of thin sheet laminate layers bonded together for forming said top panel ;

a bottom panel having an outer surface, an inner surface, said bottom panel having a second plurality of thin sheet laminate layers bonded together for forming said bottom panel;

5 an intermediate panel having an upper surface, a lower surface, and intermediate panel peripheral wall members defining an intermediate panel cavity therebetween, and said intermediate panel having a transverse member extending across said cavity between said peripheral wall members, and said intermediate panel having a third plurality of thin sheet laminate layers bonded together for forming said intermediate panel peripheral wall members.

10 Claim 6. The arrangement defined in Claim 5 and further comprising:  
a decorative veneer layer on said outer surface of said top panel.

15 Claim 7: The arrangement defined in Claim 5 and further comprising:  
a decorative veneer layer on said outer surface of said bottom panel.

Claim 8. The arrangement defined in Claim 5 and further comprising:  
a decorative veneer layer on said outer surface of said top panel; and  
a decorative veneer layer on said outer surface of said bottom panel.

20 Claim 9. The arrangement defined in Claim 5 wherein:

said inner surface of said top panel is bonded to said upper surface of said intermediate panel; and,

said inner surface of said bottom panel is bonded to said lower surface of said intermediate panel.

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Claim 10. The arrangement defined in Claim 5 wherein:

the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said second plurality of thin sheet laminate layers in said bottom panel.

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Claim 11. The arrangement defined in Claim 5 wherein:

the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said third plurality of thin sheet laminate layers in said intermediate panel.

Claim 12. The arrangement defined in Claim 5 wherein:

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the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said second plurality of thin sheet laminate layers in said bottom panel, and the number of said third plurality of thin sheet laminate layers in said intermediate panel is the same as the number of said first plurality of thin sheet laminate layers in said top panel.

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Claim 13. The arrangement defined in Claim 12 wherein:

said inner surface of said top panel is bonded to said upper surface of said intermediate

panel; and,

said inner surface of said bottom panel is bonded to said lower surface of said intermediate panel.

Claim 14. The arrangement defined in Claim 13 and further comprising  
5 a decorative veneer layer on said outer surface of said top panel.

Claim 15. The arrangement defined in Claim 13 and further comprising :  
a decorative veneer layer on said outer surface of said bottom panel.

10 Claim 16. The arrangement defined in Claim 13 and further comprising :  
a decorative veneer layer on said outer surface of said top panel; and,  
a decorative veneer layer on said outer surface of said bottom panel.

Claim 17. The arrangement defined in Claim 1 and further comprising:  
15 a decorative veneer layer on said outer surface of said top panel.

Claim 18. The arrangement defined in Claim 1 and further comprising:  
a decorative veneer layer on said outer surface of said bottom panel.

20 Claim 19. The arrangement defined in Claim 1 and further comprising:  
a decorative veneer layer on said outer surface of said top panel; and

a decorative veneer layer on said outer surface of said bottom panel.

Claim 20. The arrangement defined in Claim 1 wherein:

the number of said first plurality of thin sheet laminate layers in said top panel is the same  
5 as the number of said second plurality of thin sheet laminate layers in said bottom panel.

Claim 21. The arrangement defined in Claim 1 wherein:

the number of said first plurality of thin sheet laminate layers in said top panel is the same  
as the number of said third plurality of thin sheet laminate layers in said intermediate panel.

10 Claim 22. The arrangement defined in Claim 1 and further comprising:

the number of said first plurality of thin sheet laminate layers in said top panel is the same  
as the number of said second plurality of thin sheet laminate layers in said bottom panel, and the  
number of said third plurality of thin sheet laminate layers in said intermediate panel is the same  
15 as the number of said first plurality of thin sheet laminate layers in said top panel.

Claim 23. The arrangement defined in Claim 4 wherein:

said transparent member is glass.

20 Claim 24. The arrangement defined in Claim 4 and further comprising:

a decorative veneer layer on said outer surface of said top panel.

Claim 25. The arrangement defined in Claim 4 and further comprising:  
a decorative veneer layer on said outer surface of said bottom panel.

5 Claim 26. The arrangement defined in Claim 4 and further comprising:  
a decorative veneer layer on said outer surface of said top panel; and  
a decorative veneer layer on said outer surface of said bottom panel.

Claim 27. The arrangement defined in Claim 4 wherein:  
10 said inner surface of said top panel is bonded to said upper surface of said intermediate  
panel.

Claim 28. The arrangement defined in Claim 4 wherein:  
said inner surface of said bottom panel is bonded to said lower surface of said  
15 intermediate panel.

Claim 29. The arrangement defined in Claim 4 wherein:  
the number of said first plurality of thin sheet laminate layers in said top panel is the same  
as the number of said second plurality of thin sheet laminate layers in said bottom panel.

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Claim 30. The arrangement defined in Claim 4 wherein:

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the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said third plurality of thin sheet laminate layers in said intermediate panel.

Claim 31. The arrangement defined in Claim 4 wherein:

5 said inner surface of said top panel is bonded to said upper surface of said intermediate panel; and,

said inner surface of said bottom panel is bonded to said lower surface of said intermediate panel.

10 Claim 32. An improved construction module comprising, in combination:

a top panel having an outer surface, an inner surface, said top panel having a first plurality of thin sheet laminate layers bonded together for forming said top panel ;

a bottom panel having an outer surface, an inner surface, said bottom panel having a second plurality of thin sheet laminate layers bonded together for forming said bottom panel;

15 an intermediate panel having an upper surface, a lower surface, and intermediate panel peripheral wall members defining an intermediate panel cavity therebetween, and said intermediate panel having a third plurality of thin sheet laminate layers bonded together for forming said intermediate panel peripheral wall members.

20 Claim 32. The arrangement defined in Claim 31 and further comprising:

a decorative veneer layer on said outer surface of said top panel.



the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said third plurality of thin sheet laminate layers in said intermediate panel.

Claim 31. The arrangement defined in Claim wherein:

5 said inner surface of said top panel is bonded to said upper surface of said intermediate panel; and,

said inner surface of said bottom panel is bonded to said lower surface of said intermediate panel.

10 Claim 32. An improved construction module comprising, in combination:

a top panel having an outer surface, an inner surface, said top panel having a first plurality of thin sheet laminate layers bonded together for forming said top panel ;

a bottom panel having an outer surface, an inner surface, said bottom panel having a second plurality of thin sheet laminate layers bonded together for forming said bottom panel;

15 an intermediate panel having an upper surface, a lower surface, and intermediate panel peripheral wall members defining an intermediate panel cavity therebetween, and said intermediate panel having a third plurality of thin sheet laminate layers bonded together for forming said intermediate panel peripheral wall members.

20 Claim 32. The arrangement defined in Claim 31 and further comprising:

a decorative veneer layer on said outer surface of said top panel.

Claim 33. The arrangement defined in Claim 31 and further comprising:  
a decorative veneer layer on said outer surface of said bottom panel.

Claim 34. The arrangement defined in Claim 31 and further comprising:  
5 a decorative veneer layer on said outer surface of said top panel; and  
a decorative veneer layer on said outer surface of said bottom panel.

Claim 35. The arrangement defined in Claim 31 wherein:  
said inner surface of said top panel is bonded to said upper surface of said intermediate  
10 panel.

Claim 36. The arrangement defined in Claim 31 wherein:  
said inner surface of said bottom panel is bonded to said lower surface of said  
intermediate panel.

Claim 37. The arrangement defined in Claim 31 wherein:  
said inner surface of said top panel is bonded to said upper surface of said intermediate  
panel; and,  
said inner surface of said bottom panel is bonded to said lower surface of said  
15 intermediate panel.  
20 intermediate panel.

Claim 38. The arrangement defined in Claim 31 wherein:

the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said second plurality of thin sheet laminate layers in said bottom panel.

5 Claim 39. The arrangement defined in Claim 31 wherein:

the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said third plurality of thin sheet laminate layers in said intermediate panel.

Claim 40. The arrangement defined in Claim 31 and further comprising:

10 the number of said first plurality of thin sheet laminate layers in said top panel is the same as the number of said second plurality of thin sheet laminate layers in said bottom panel, and the number of said third plurality of thin sheet laminate layers in said intermediate panel is the same as the number of said first plurality of thin sheet laminate layers in said top panel.

15 Claim 41. A method of fabricating a construction module comprising the steps of:

assembling together a first plurality of thin sheet layers to form a top panel and applying a heat reactive adhesive between said first plurality of thin sheet layers;

assembling together a second plurality of thin sheet layers to form a bottom panel and applying a heat reactive adhesive between said second plurality of thin sheet layers;;

20 assembling together a third plurality of thin sheet layers to form an intermediate panel applying a heat reactive adhesive between said third plurality of thin sheet layers;;

placing said intermediate panel between said top panel and said bottom panel in an aligned position;

placing said aligned top, intermediate and bottom panels in a heated press to bond together said first plurality of thin sheet layers, and to bind together said second plurality of thin sheet layers and to bond together said third plurality of thin sheet layers;

removing said top panel, said intermediate panel and said bottom panel from said heated press;

separating said top panel from said intermediate panel and separating said bottom panel from said intermediate panel;

removing a first preselected portion of said intermediate panel to define a first cavity portion extending therethrough bounded by peripheral walls;

applying a heat reactive adhesive between an inner surface of said top panel and an upper surface of said intermediate panel;

applying a heat reactive adhesive between an inner surface of said bottom panel and a lower surface of said intermediate panel;

placing said top panel, said intermediate panel and said bottom panel in a heated press to bond together said top panel said intermediate panel and said bottom panel to form said construction module; and,

removing said construction module from said heated press.

Claim 42. The method defined in claim 41 further comprising the steps of:

trimming each of said top panel, said intermediate panel and said bottom panel to substantially the same peripheral contours.

Claim 43. A method of fabricating a construction module comprising the steps of:

5 assembling together a first plurality of thin sheet layers to form a top panel and applying a heat reactive adhesive between said first plurality of thin sheet layers;

assembling together a second plurality of thin sheet layers to form a bottom panel and applying a heat reactive adhesive between said second plurality of thin sheet layers;;

assembling together a third plurality of thin sheet layers to form an intermediate panel  
10 applying a heat reactive adhesive between said third plurality of thin sheet layers;;

placing said intermediate panel between said top panel and said bottom panel in an aligned position;

placing said aligned top panel, said intermediate panel and said bottom panel in a heated press to bond together said first plurality of thin sheet layers, and to bind together said second  
15 plurality of thin sheet layers and to bond together said third plurality of thin sheet layers;

removing said top panel, said intermediate panel and said bottom panel from said heated press;

separating said top panel from said intermediate panel and separating said bottom panel from said intermediate panel;

20 removing a first preselected portion of said intermediate panel to define a first cavity portion extending therethrough bounded by peripheral walls;

removing a second preselected portion of said intermediate panel to define a second cavity portion therethrough and defining a transverse member extending between two of said peripheral walls of said intermediate panel;

applying a heat reactive adhesive between an inner surface of said top panel and an upper surface of said intermediate panel;

applying a heat reactive adhesive between an inner surface of said bottom panel and a lower surface of said intermediate panel;

placing said top panel, said intermediate panel and said bottom panel in a heated press to bond together said top panel said intermediate panel and said bottom panel to form said construction module; and,

removing said construction module from said heated press.

Claim 44. The method defined in claim 43 wherein said step of assembling together a first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel.

Claim 45. The method defined in claim 43 wherein said step of assembling together a second plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said bottom panel.

Claim 46. The method defined in claim 43 wherein said step of assembling together a first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel; and

the step of assembling together a second plurality of thin sheet layers further comprises  
5 the step of applying a veneer layer to an outer surface of said bottom panel.

Claim 48. The method defined in claim 43 wherein said step of assembling together said second plurality of thin sheet layers further comprises the step of selecting the number of said second plurality of thin sheet layers to be the same as said the number of said first plurality  
10 of thin sheet layers; and said step of assembling together said third plurality of thin sheet layers further comprises the step of selecting the number of said third plurality of thin sheet layers to be the same as the number of said first plurality of thin sheet layers.

Claim 49. A method of fabricating a construction module comprising the steps of:  
15 assembling together a first plurality of thin sheet layers to form a top panel and applying a heat reactive adhesive between said first plurality of thin sheet layers;

assembling together a second plurality of thin sheet layers to form a bottom panel and  
applying a heat reactive adhesive between said second plurality of thin sheet layers;;

assembling together a third plurality of thin sheet layers to form an intermediate panel  
20 applying a heat reactive adhesive between said third plurality of thin sheet layers;;

placing said intermediate panel between said top panel and said bottom panel in an

aligned position;

placing said aligned top panel, said intermediate panel and said bottom panel in a heated press to bond together said first plurality of thin sheet layers, and to bind together said second plurality of thin sheet layers and to bond together said third plurality of thin sheet layers;

5 removing said top panel, said intermediate panel and said bottom panel from said heated press;

separating said top panel from said intermediate panel and separating said bottom panel from said intermediate panel;

10 removing a first preselected portion of said top panel to define a first top panel cavity portion extending therethrough bounded by peripheral walls of said top cavity;

removing a first preselected portion of said bottom panel to define a first bottom panel cavity portion extending therethrough bounded by peripheral walls of said bottom panel;

15 removing a first preselected portion of said intermediate panel to define a first intermediate cavity portion extending therethrough bounded by peripheral walls of said intermediate cavity;

applying a heat reactive adhesive between an inner surface of said top panel and an upper surface of said intermediate panel;

applying a heat reactive adhesive between an inner surface of said bottom panel and a lower surface of said intermediate panel;

20 aligning said first top cavity portion of said top panel with said first intermediate cavity portion and said first bottom cavity portion of said bottom portion



placing said aligned top panel, said intermediate panel and said bottom panel in a heated press to bond together said top panel said intermediate panel and said bottom panel to form said construction module; and,

removing said construction module from said heated press.

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Claim 50. The method defined in Claim 49 further comprising the step of:

placing a transparent member in said aligned first cavity portion of said top panel, said first cavity portion of said intermediate panel and said first panel portion of said bottom panel.

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Claim 51. The method defined in claim 49 wherein said step of assembling together a first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel.

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Claim 52. The method defined in claim 49 wherein said step of assembling together a second plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said bottom panel.

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Claim 53. The method defined in claim 49 wherein said step of assembling together a first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel; and

the step of assembling together a second plurality of thin sheet layers further comprises

the step of applying a veneer layer to an outer surface of said bottom panel.

Claim 54. The method defined in claim 49 wherein said step of assembling together a second plurality of thin sheet layers further comprises the step of applying a veneer layer to an  
5 outer surface of said bottom panel.

Claim 55. The method defined in claim 49 wherein said step of assembling together a first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel; and

10 the step of assembling together a second plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said bottom panel.

Claim 56. The method defined in claim 49 wherein said step of assembling together said second plurality of thin sheet layers further comprises the step of selecting the number of  
15 said second plurality of thin sheet layers to be the same as said the number of said first plurality of thin sheet layers; and said step of assembling together said third plurality of thin sheet layers further comprises the step of selecting the number of said third plurality of thin sheet layers to be the same as the number of said first plurality of thin sheet layers.

20 Claim 57. A method of fabricating a construction module comprising the steps of:  
assembling together a first plurality of thin sheet layers to form a top panel and applying a heat

reactive adhesive between said first plurality of thin sheet layers;

assembling together a second plurality of thin sheet layers to form a bottom panel and  
applying a heat reactive adhesive between said second plurality of thin sheet layers;;

assembling together a third plurality of thin sheet layers to form an intermediate panel  
5 applying a heat reactive adhesive between said third plurality of thin sheet layers;;

placing said intermediate panel between said top panel and said bottom panel in an  
aligned position;

placing said aligned top panel, said intermediate panel and said bottom panel in a heated  
press to bond together said first plurality of thin sheet layers, and to bind together said second  
10 plurality of thin sheet layers and to bond together said third plurality of thin sheet layers;

removing said top panel, said intermediate panel and said bottom panel from said heated  
press;

separating said top panel from said intermediate panel and separating said bottom panel  
from said intermediate panel;

15 removing a first preselected portion of said top panel to define a first cavity portion  
extending therethrough bounded by peripheral walls;

applying a decorative coating layer on an upper surface of said intermediate panel in  
preselected portions of said intermediate panel;

aligning said top panel with said intermediate panel to provide said first cavity of said top  
20 panel with said decorative coating layer on said intermediate panel;

applying a heat reactive adhesive between an inner surface of said top panel and said

upper surface of said intermediate panel;

applying a heat reactive adhesive between an inner surface of said bottom panel and a lower surface of said intermediate panel;

placing said top panel, said intermediate panel and said bottom panel in a heated press to bond together said top panel said intermediate panel and said bottom panel to form said construction module; and,

removing said construction module from said heated press.

Claim 57, The method defined in claim 41 further comprising the steps of:  
trimming each of said top panel, said intermediate panel and said bottom panel to substantially the same peripheral contours.

Claim 58. The method defined in claim 57 wherein said step of assembling together said first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel.

Claim 59. The method defined in claim 57 wherein said step of assembling together a second plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said bottom panel.

Claim 60. The method defined in claim 57 wherein said step of assembling together a

first plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said top panel; and

the step of assembling together a second plurality of thin sheet layers further comprises the step of applying a veneer layer to an outer surface of said bottom panel.

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Claim 61. The method defined in claim 57 wherein said step of assembling together said second plurality of thin sheet layers further comprises the step of selecting the number of said second plurality of thin sheet layers to be the same as said the number of said first plurality of thin sheet layers.

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Claim 62. The method defined in claim 43 wherein said step of assembling together said second plurality of thin sheet layers further comprises the step of selecting the number of said second plurality of thin sheet layers to be the same as said the number of said first plurality of thin sheet layers; and said step of assembling together said third plurality of thin sheet layers further comprises the step of selecting the number of said third plurality of thin sheet layers to be the same as the number of said first plurality of thin sheet layers.

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